

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Express Mail: EV 561841475 US
 National Phase of PCT/EP2004/053623
 Attorney Docket: I-2003.025 US

Applicant's or agent's file reference 2003 . 025 WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/053623	International filing date (day/month/year) 21/12/2004	(Earliest) Priority Date (day/month/year) 23/12/2003
Applicant AKZO NOBEL N.V.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (See Box II).

3. Unity of invention is lacking (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. _____

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

a sequence listing
 table(s) related to the sequence listing

b. format of material

in written format
 in computer readable form

c. time of filing/furnishing

contained in the international application as filed
 filed together with the international application in computer readable form
 furnished subsequently to this Authority for the purpose of search

2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K39/116 A61K39/295
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
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EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT
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Category [*]	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94/09114 A (AKZO NOBEL NV ; STORM PAUL KAREL (NL); EMPEL PAUL CORNELIUS MARIA VAN) 28 April 1994 (1994-04-28) cited in the application page 13, paragraph 2 page 14, paragraph 2 - paragraph 3 claims 7,8 -----	1-15
X	US 2003/149255 A1 (LOPES VANESSA ET AL) 7 August 2003 (2003-08-07) paragraphs '0005!, '0038!, '0040!, '0049! ----- -/-	1-15

<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.
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<input checked="" type="checkbox"/> Patent family members are listed in annex.
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° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

12 May 2005

Date of mailing of the international search report
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31/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016

Authorized officer

Noë, V

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>BUCHMEIER NANCY A ET AL: "Recombination-deficient mutants of <i>Salmonella typhimurium</i> are avirulent and sensitive to the oxidative burst of macrophages" <i>MOLECULAR MICROBIOLOGY</i>, BLACKWELL SCIENTIFIC, OXFORD, GB, vol. 7, no. 6, 1993, pages 933-936, XP000926294 ISSN: 0950-382X abstract</p> <p>-----</p>	8
A	<p>GUERRY P ET AL: "DEVELOPMENT AND CHARACTERIZATION OF RECA MUTANTS OF <i>CAMPYLOBACTER JEJUNI</i> FOR INCLUSION IN ATTENUATED VACCINES" <i>INFECTION AND IMMUNITY</i>, AMERICAN SOCIETY FOR MICROBIOLOGY, WASHINGTON, US, vol. 62, no. 2, February 1994 (1994-02), pages 426-432, XP000992851 ISSN: 0019-9567 abstract</p> <p>-----</p>	8

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claim 12 is partially directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

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Information on patent family members

 International Application No
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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 9409114	A 28-04-1994	AT 146818 T		15-01-1997
		DE 10399019 I1		18-09-2003
		DE 69306934 D1		06-02-1997
		DE 69306934 T2		28-05-1997
		DK 625190 T3		16-06-1997
		WO 9409114 A1		28-04-1994
		EP 0625190 A1		23-11-1994
		ES 2098788 T3		01-05-1997
		GR 3022756 T3		30-06-1997
		HU 69794 A2		28-09-1995
		JP 7502174 T		09-03-1995
		NL 300121 I1		02-06-2003
		US 5576003 A		19-11-1996
		US 6114131 A		05-09-2000
		US 5925361 A		20-07-1999
		ZA 9307652 A		04-05-1994
US 2003149255	A1 07-08-2003	NONE		